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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/707,592	12/23/2003	Robert Brule	45283.102	1591
	7590 01/23/200 O C/O BENNETT JON	EXAMINER		
1000 ATCO CE	ENTRE	BALDWIN, GORDON		
10035 - 105 STREET EDMONTON, ALBERTA, AB T5J3T2			ART UNIT	PAPER NUMBER
CANADA			1794	
		MAIL DATE	DELIVERY MODE	
			01/23/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application	No.	Applicant(s)		
Office Action Summary		10/707,592		BRULE ET AL.		
		Examiner		Art Unit		
		GORDON R		1794		
The MAILING DATE of the Period for Reply	nis communication ap	opears on the c	over sheet with the o	correspondence a	ddress	
A SHORTENED STATUTORY WHICHEVER IS LONGER, FR - Extensions of time may be available under after SIX (6) MONTHS from the mailing of lf NO period for reply is specified above, in Failure to reply within the set or extended Any reply received by the Office later that earned patent term adjustment. See 37 (OM THE MAILING [er the provisions of 37 CFR 1 ate of this communication. the maximum statutory period period for reply will, by statul n three months after the maili	DATE OF THIS .136(a). In no event, d will apply and will e te, cause the applica	COMMUNICATION however, may a reply be tir xpire SIX (6) MONTHS from tion to become ABANDONE	N. nely filed the mailing date of this D (35 U.S.C. § 133).	,	
Status						
 1) ⊠ Responsive to communion 2a) ⊠ This action is FINAL. 3) ☐ Since this application is in closed in accordance with 	2b)∐ Thi n condition for allowa	is action is nor ance except fo	ı-final. r formal matters, pro		e merits is	
Disposition of Claims						
4)	is/are withdra owed. e rejected. jected to.	awn from cons				
Application Papers						
9) The specification is object 10) The drawing(s) filed on Applicant may not request the Replacement drawing sheet 11) The oath or declaration is	is/are: a) ☐ ac hat any objection to the t(s) including the correc	ccepted or b) e drawing(s) be ction is required	held in abeyance. Se if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 C		
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-89: 2) Notice of Draftsperson's Patent Draw 3) Information Disclosure Statement(s) Paper No(s)/Mail Date	ring Review (PTO-948)	_) Interview Summary Paper No(s)/Mail D) Notice of Informal F) Other:	ate		

Detailed Action

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 3-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Luthra (U.S. Pat. No. 4,933,309).

Consider claims 1, 3 and 7-10, Lurtha discloses a ceramic composite which is taught to contain ceramic fibers of alumina as well as a ceramic powder of alumina with a particle size of 1-6 microns. (Col. 2 lines 20-28, 58-69 and Col. 3 lines 1-19)

The disclosure of a particle size of 1-6 microns is considered to anticipate the "about 5 micrometer particle size" because prior art which teaches a range within, overlapping, or touching the claimed range anticipates if the prior art range discloses the claimed range with sufficient specificity. See MPEP 2131.03 and *Ex parte Lee*, 31 USPQ2d 1105 (Bd. Pat. App. & Inter. 1993).

Lurtha is considered to disclose a composite structure in a fired state. (Col. 3 lines 10-20 and 40-55) Additionally, Lurtha discloses the use of tape-casting to produce the ceramic piece with the binder and sintering aid evaporated off, with a fired porosity of 60% or less (see col. 3, lines 53-55, for instance).

The claiming of the method of "tape-casting" is considered to be a product-byprocess limitation and even though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process., (In re Thorpe, 227 USPQ 964,966). Once the Examiner provides a rationale tending to show that the claimed product appears to be the same or similar to that of the prior art, although produced by a different process, the burden shifts to applicant to come forward with evidence establishing an unobvious different between the claimed product and the prior art product (*In re Marosi*, 710 F.2d 798, 802, 218 USPQ 289, 292 (Fed. Cir. 1983), MPEP 2113).

Regarding the use of Lurtha's article as compared to the applicant's stated use in the preamble of claim 1, the recitation "seal for use in a high temperature fuel cell" has not been given patentable weight because the recitation occurs in the preamble. A preamble is generally not accorded any patentable weight where it merely recites the purpose of a process or the intended use of a structure, and where the body of the claim does not depend on the preamble for completeness but, instead, the process steps or structural limitations are able to stand alone. See *In re Hirao*, 535 F.2d 67, 190 USPQ 15 (CCPA 1976) and *Kropa v. Robie*, 187 F.2d 150, 152, 88 USPQ 478, 481 (CCPA 1951).

Lurtha discloses that the article described is for use in high temperature environments, therefore such an article is also considered to be in the realm of use for a seal or any other article used in a high temperature environment.

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Additionally, regarding the ability of the Lurtha's article to have the same characteristics as the claimed article (ceramic fibers remaining flexible at operating temperatures and ceramic fibers resisting sintering at operational temperature), these characteristics are considers to be met by Lurtha. They are met because Lurtha teaches the use of the same materials (alumina fiber and powders) and the same process to manufacture (tape-casting) with the same size particles with porosity in the range of the applicant. By this disclosure, the features of flexible ceramic fibers at operating temperatures and fibers resisting sintering at operating temperatures is considered to be met by the disclosure in the Lurtha reference.

Consider claims 4-6, while Lurtha does not specifically mention a pre-fired porosity, these claims are considered to be met by Lurtha. They are met because Lurtha teaches the use of the same materials (alumina fiber and powders) and the same process to manufacture (tape-casting) with the same size particles with porosity in the range of the applicant. Additionally, since claim 1 relates to a seal in a "fired state", the limitations of claims 4 and 5 are merely to an intermediate phase of the final "fired" product. Therefore these limitations are not of the final product (product of claim 1) and are not given patentable weight over the prior art.

Response to Arguments

The 35 USC 112(2) rejections have been withdrawn due to the applicant's amendments.

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Applicant's arguments against the 35 USC 102(b) rejection filed 9/26/2008 have been fully considered but they are not persuasive. The applicant discloses in the Pg Publication 2004/0135324, that the term "fired" refers to the *ceramic material after it has been heated above a temperature where a substantial proportion of organic material within the ceramic material is burned out.* (Para. 23). In light of this description of the term "firing", the Lurtha reference discloses that shaping-aid materials (organic material) are preferably of the type *which evaporate away upon heating to around 400 degrees Celsius.* (Col. 3 lines 45-55 in Lurtha) Under the claim language of claim 1 and in light of the applicant's specification, the compact disclosed in col. 3 lines 45-55 of Lurtha is considered to be fired and substantially free of binder with a porosity of less that 60%, as presently claimed. Therefore, the art disclosed by Lurtha is still considered to read upon the claim limitations recited by the applicant.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to GORDON R. BALDWIN whose telephone number is (571)272-5166. The examiner can normally be reached on M-F 7:45-5:15.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jennifer McNeil can be reached on 571-272-1540. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

GRB

/Timothy M. Speer/ Primary Examiner, Art Unit 1794